



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,582	03/25/2004	Roy Feigel	AUS920030881US1	7124
45327	7590	04/20/2007	EXAMINER	
IBM CORPORATION (CS) C/O CARR LLP 670 FOUNDERS SQUARE 900 JACKSON STREET DALLAS, TX 75202			MA, CALVIN	
			ART UNIT	PAPER NUMBER
			2609	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		04/20/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/809,582

Applicant(s)

FEIGEL ET AL.

Examiner

Calvin Ma

Art Unit

2609

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03/25/2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 08/16/2004, 11/09/2006.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application
- ☐ Other: _____.

DETAILED ACTION

Information Disclosure Statement

1. The reference listed on the information disclosure statement filed on 08/16/2004 and 11/09/2006 have been considered. (see attached PTO-1449)

Claim Objections

2. Claim 2 recites "the code segments" in line 2, which does not match up with the referenced "segments" made in claim 1. It would be better if "the code segments" is change to "the segments" and then follow with more detailed explanation to further limit that of claim 1. This would make the claim read better. Appropriate correction is required.
3. Claims 11, 12 are objected to because of the following informalities: the word "Generating" is capitalized three times unnecessarily. Appropriate correction is required.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Art Unit: 2609

5. Claims 20, and 21 are rejected under 35 U.S.C. 101, as having non-statutory matter.

Claims 20 and 21 recite "A computer program product" and "a computer program", which is nonspecific and lack utility. The computer program product can be reasonably interpreted to be, software per se. That is, the scope of the presented claimed a computer program that can range from paper on which the program is written, to a program simply contemplated and memorized by a person. Claims 20-21 neither include any computer hardware components nor positively recite that the cited computer program are stored on a computer medium that can be read by a machine. As such, claims 20-21 are directed toward software per se, which is non-functional descriptive material and non-statutory.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 recites the limitation "the client", respectively in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

9. Claims 1, 6-8, 10, 12, 14, 17-18 and 20-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Hagiwara et al. (U.S. Patent: 5,784,035)

As to claim, 1 Hagiwara discloses a method for rendering a display (12) over a plurality of graphical interfaces (14a, 14b, 14c, and 14d) (see Fig. 1, Col.3, Lines 60-67 and Col.4, Lines 1-11), comprising:

assigning a column number associated with each member of a plurality of display devices; assigning a row number associated with each member of a plurality of display devices; (i.e. since the 6x6 matrix performs the refreshment in various sequence according to software control it must assign identifier for each column and row) (see Fig.4, Col.5, Lines 16-47)

Art Unit: 2609

generating an image to be displayed on at least two of the plurality of display devices (i.e. the multiple-screen display 12 acts as one large display to display image) (see Fig 1, Col.3, Lines 60-67 and Col.4, Lines 1-11);

generating a plurality of segments from the generated image (SD); (i.e. the screen data SD is further divided to local data via a coordinate conversion circuit 17 which is a segment of the original image to be displayed for the local display) (see Fig. 2, Col. 4, Lines 12-17)

generating a first (offset y) and second offset (offset x) for at least two of the plurality of display devices; (i.e. each local display has a local coordinate that is obtained with the two offsets) (see Col.5, Lines 1-6, Col.4, Lines 48-67)

selecting at least two segments of the image as a function of the first and second offset (i.e. since each local display uses calculations with respect to the two offsets to arrive at the segment) (see Col.5, Lines 1-6, Col.4, Lines 48-67); and

displaying the at least two selected segments on the at least two display devices. (i.e. the four local displays in Fig. 1 uses local screen data as information to be displayed) (see Fig. 1, Col.3, Lines 60-67 and Col.4, Lines 1-11)

Claims 20 and 21, are analyzed of having the same limitation as claim 1 and is rejected for the same reasons.

As to claim 6, Hagiwara teaches the method of claim 1, where in a virtual image is displayed over two adjacent screens. (i.e. since the applicant defines "virtual image"

Art Unit: 2609

as duplicate image instead of optically virtual image, it is clear that as a text image scrolling across the large display (the 6x6 matrix in Fig.4) it invariably will result in duplicate images crossing the boundary of the local display) (see Fig.4, Col.5, Lines 36-47)

As to claim 7, Hagiwara teaches the method of claim 1, wherein the row number is equal to the first offset (offset y) and the column number is equal to the second offset (offset x). (i.e. if the local data are identical to the all data then the offset will be the same as the row and column number since in Fig.5 the 6x6 system of matrix display is clearly arranged this way, as demonstrated in formula 1) (see Col.5, Lines 1-6, Col.4, Lines 48-67)

As to claim 8, Hagiwara clearly teaches the method of claim 1, wherein the first offset is equal to the vertical offset (offset y) and the second offset is equal to the horizontal offset (offset x) for at least one of the plurality of display devices. (i.e. when the local coordinate is different than the all data then the first offset and the second offset would be the vertical and horizontal offset, as demonstrated in formula 1) (see Col.5, Lines 1-6; Col.4, Lines 48-67)

As to claim 10, Hagiwara teaches the method of claim 1, further comprising selecting at least two of the plurality of display devices. (i.e. from Fig.3 a four screen system is demonstrated where the offset is shown with respect to the coordinate system

Art Unit: 2609

of the display appear so all four local display is selected to apply the local screen data to create the image)

As to claim 12, Hagiwara teaches the method of claim 1, wherein the step of generating an image to be displayed on at least two of the plurality of display devices further comprises generating a video image (i.e. analog video signal is received by screen data generating section 11, the video data generating circuit 23 then convert the supplied video signal into digital video data. Which then sent to the local data selecting circuit 15 and finally displayed after transmitting to the local data generating section 14a to 14d) (see Fig.8, Col.5, Lines 62-67, Col.6, Lines 1-5)

As to claim 14, see claim 2 above, Apple teaches the method of claim 1, further comprising generating the image in a client (14a, 14b, 14c, 14d) coupled to each display. (12a, 12b, 12c, 12d) (i.e. the local data generating section correspond to each individual display to generate the images) (see Fig.1, Col.4, Lines 5-10)

As to claim 17, Hagiwara teaches the method of claim 1, further comprising synchronizing the plurality of display devices to start execution substantially the same start time. (i.e. the screen data generating section provide a time stamp onto selected local screen data, allowing the synchronization with one another based on the time stamp, which allows videos to be displayed without deficiency, which means that the

Art Unit: 2609

local display unites are start at the same time to present a viewable video as a whole)
(see Col.2, Lines 30-42, Col. 7, Lines 12-16)

As to claim 18, Hagiwara teaches the method of claim 1, further comprising synchronizing the plurality of display devices to display a plurality of images in succession at substantially the same time. (i.e. the display is able use successive transmission to create horizontal, vertical, and diagonal movement of information) (see Col.2, Lines 5-30, Col. 7, Lines 12-16)

10. Claim 19 is rejected under 35 U.S.C. 102(e) as being anticipated by Apple et al.
(US Patent: 7,082,398)

As to claim 19, Apple teaches a system for displaying a graphical image on a plurality of screens (2080) (see Fig.20), comprising:

a client computer (2531VIP console) (see Fig.25); a plurality of server computers (DC1-DC28) coupled to the client computer (see Col.12 Lines 4-10);

a display of a plurality of graphical devices(2080), wherein each device is coupled to at least one server (see Col.10 Lines 20-35);

and wherein the client is configured to segment a video image for substantially concurrent rendering by the plurality of server computers (i.e. since 2-video teleconferencing Area 130 and 135 consists of ten individual display that is interacting with the VIP console to create segments of video images to the five servers that

Art Unit: 2609

controls the ten individual displays, and since the ten individual displays are control by five servers to render the video, it is required for the server the create a concurrent rendering of the video) (see Fig.1A, Col.3, Lines 59-67, Col.7, Lines 53-58, Col.12, Lines 4-10).

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. Claims 2-5, 11, 13, and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hagiwara in view of Apple et al. (US Patent: 7,082,398)

As to claim 2, note the discussion of Hagiwara above, Hagiwara teaches the method of claim 1, but does not teach dynamically defining the code segments. Apple teaches dynamically defining the code segments. (i.e. the dynamic ticker display area 120 is a display area that display market ticker messages when market is open and scroll market facts and other message when the market is closed) (see Fig.1, Col. 4, lines 1-5) Therefore, it would have been obvious to one of ordinary skill in the art at the

Art Unit: 2609

time the invention was made to have included the dynamically defining code segments in the multiple display system of Hagiwara in order provide information in real time video and to provide information in a standard schedule or in response to external events.

(see Apple Col.1, Lines 44-51)

As to claim 3, Apple teaches the method in claim 2 wherein the dynamically definition occurs at the client. (i.e. the stock stick information that makes up the dynamic segment come from the stock ticker (ST) which must get the information from data server 2540 that actual provide the data update) (see Fig.25, Col. 11, Lines 34-38)

As to claim 4, Apple teaches the method of selecting of at least one segment of the images is performed by a server. (Data Server 2210) (i.e. the Data server provides provide the display data processors the information to be displayed) (see Fig.23, Col.9, Lines 41-65)

As to claim 5, Apple teaches the method of claim 1, wherein the selecting at least one segment of the images is performed by a client. (User console 2530) (i.e. the user console create content for the user content and provide VIP access) (see Fig22B, Col.12, Lines 4-10).

As to claim 11, Hagiwara teaches the method of claim 1, wherein the step of generating an image to be displayed on at least two of the plurality of display devices.

Art Unit: 2609

Apple teaches generating an image to be displayed on a graphical user interface. (i.e. multimedia computer 2740 is said to be Intel-based PCs and Apple Macintoshes which clearly have graphic user interface and are attached to the Router 2750 which control the video wall 2270 sending signal to the individual monitor) (see Fig. 28, Col.14, Lines 1-24) Thus combining Hagiwara and Apple would meet the claimed limitation.

As to claim 13, Hagiwara teaches the method of claim 1. Apple, teaches generating the image in a server coupled to the each display. (i.e. in the specification the applicant define servers as display computer (Fig.1), the display PC 2230-2235 are computer said to control two monitors, how ever Apple clearly state that this is a design choice where one skill in the art can choose, so coupling one computer with one display is demonstrated here) (see Fig.22A, Col.10 Lines 20-35) Thus combining Hagiwara and Apple would meet the claimed limitation.

As to claim 15, Hagiwara teaches wherein the step of segmenting is performed in a local data generating section (14a-14d) coupled to the display device. (i.e. the local display is divided into a smaller 6x6 matrix which constitute segmenting) (see Fig.4, Col.5 Lines 16-35) Apple clearly teaches a server computer that controls the individual display. (i.e. in the specification the applicant define servers as display computer (Fig.1), the display PC 2230-2235 are computer said to control two monitors, how ever Apple clearly state that this is a design choice where one skill in the art can choose, so

Art Unit: 2609

coupling one computer with one display is demonstrated here) (see Fig.22A, Col.10, Lines 20-35) Thus combining Hagiwara and Apple would meet the claimed limitation.

As to claim 16, Hagiwara teaches wherein the step of segmenting is performed in a client. (11 screen data generating section) (see Fig.1, Col.3 Lines 60-67) Apple teaches the plurality of server that is coupled is own respective individual display. (see Fig. 22A, Col.10, Lines 20-35) Thus combining Hagiwara and Apple would meet the claimed limitation.

13. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hagiwara in view of Tretter et al. (U.S.P.G. Pub: 2005/0093894)

As to claim 9, Hagiwara teaches the method of claim 1, wherein the second offset is equal to the horizontal offset for at least one of the plurality of display devices. However Hagiwara does not teach wherein the first offset is not equal to the vertical offset.

Tretter teaches diagonal offset(see Fig.24, [0026]). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the diagonal offset as the first offset in the multiple display system of Hagiwara in order to increase the resolution of the displayed image. (see Tretter[0004])

Conclusion

Masuda (U.S.P.G. Pub 2004/0233189) is cited to teach the 3 x 3 matrix multi-display interface system.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Calvin Ma whose telephone number is (571) 270-1713. The examiner can normally be reached on Monday - Friday 7:30 - 5:00 EST.

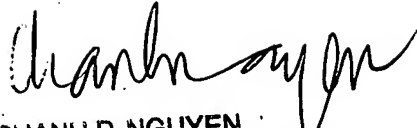
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chanh Nguyen can be reached on (571) 272-7772. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 2609

Calvin Ma

April 3, 2007


CHANH D. NGUYEN
SUPERVISORY PATENT EXAMINER